



2016 BIOLOGICAL MONITORING AND FISH RELOCATION SITES

Adam M. Webb

9th MWMC Streams Roundtable

February 19th, 2016

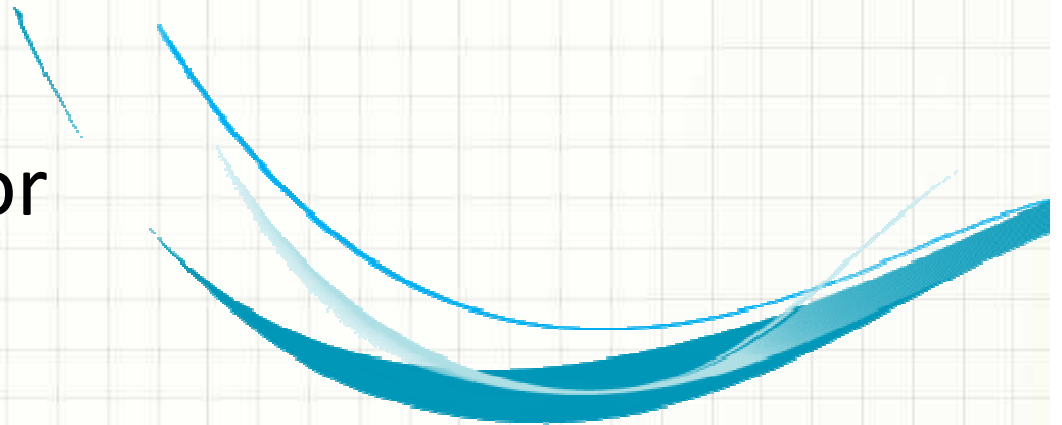




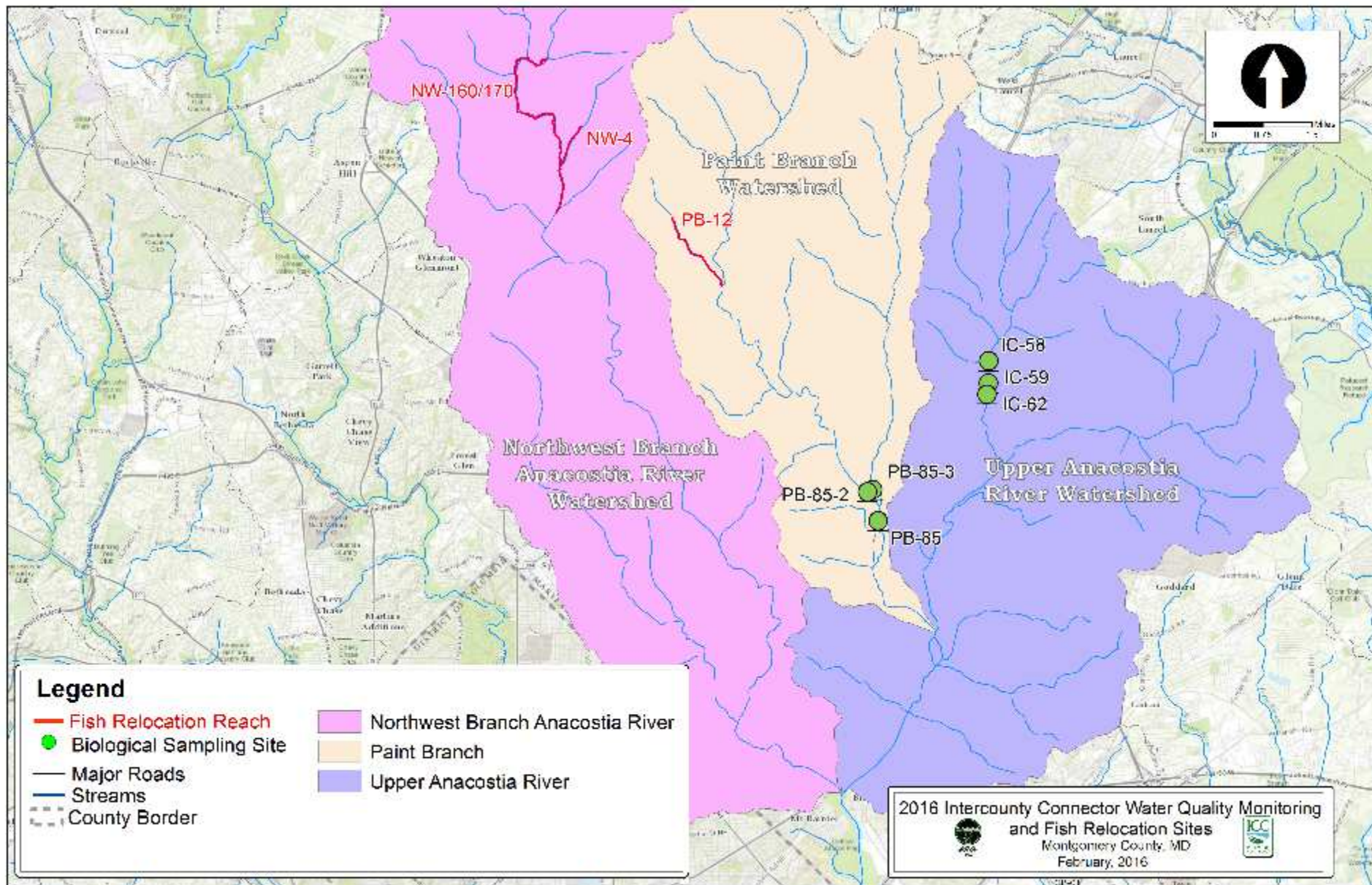
CRI Projects in 2016

- Intercounty Connector Mitigation Monitoring – Montgomery County (SHA)
- Purple Line Mitigation Monitoring – Prince George's County (MTA)
- Montgomery County DEP Restoration Monitoring (MCDEP)
- Kelly Branch Restoration Monitoring – Baltimore County (Baltimore County EPS)

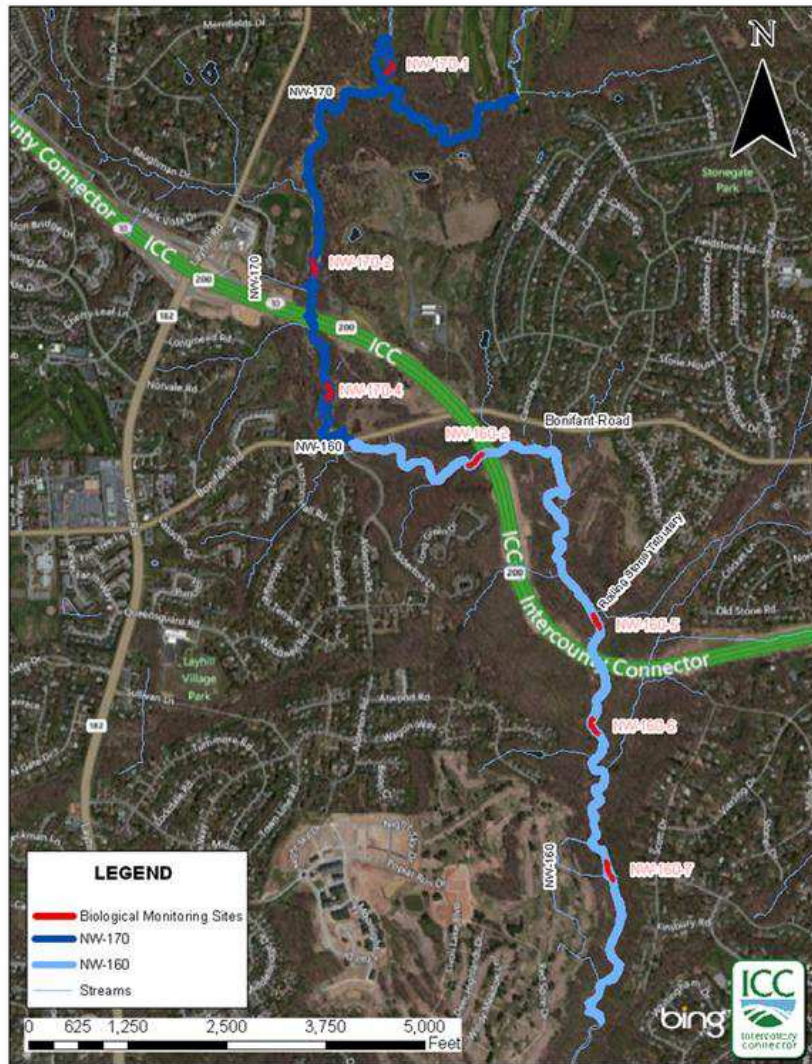
Intercounty Connector



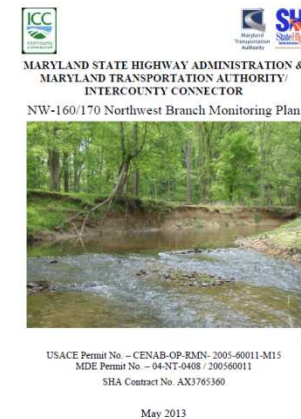
- Monitoring 2 restoration projects used for ICC mitigation/stewardship
 - Collecting water quality/stream condition data using modified MBSS protocols for spring and summer sampling
 - Conducting fish relocation at 3 restoration projects to prevent fish mortality during construction



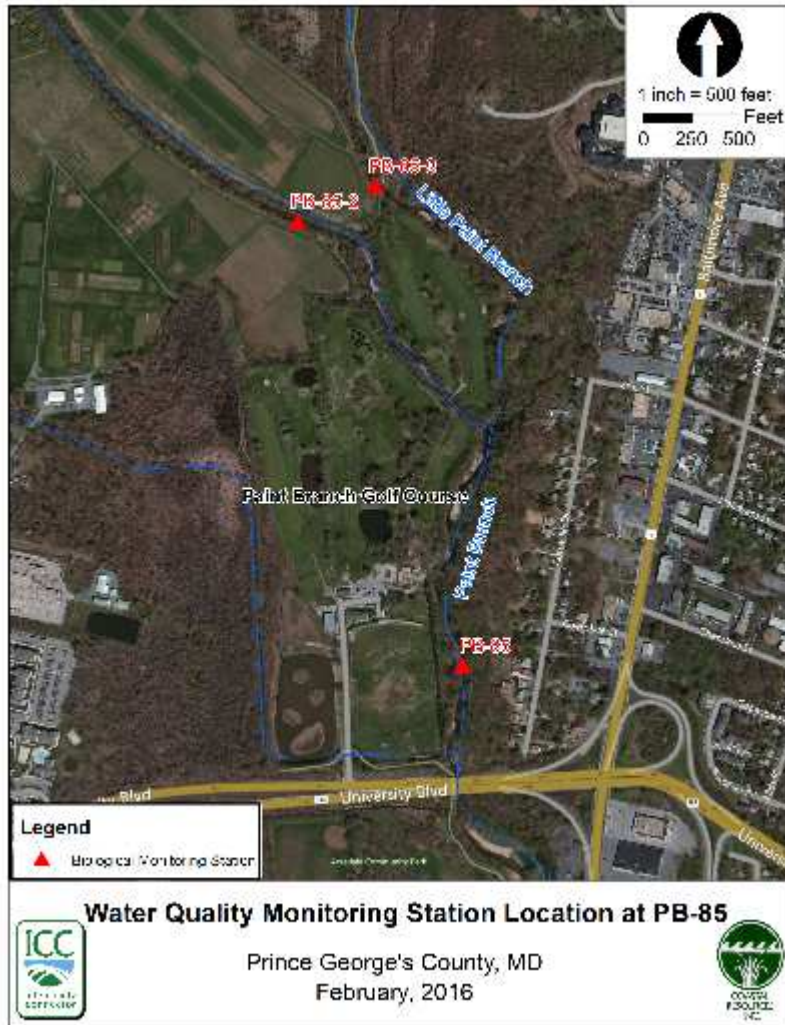
NW-160/170 Stream Restoration



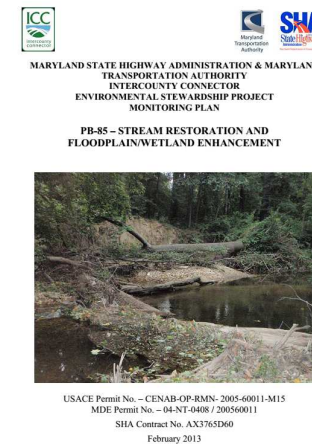
- Northwest Branch of Anacostia River
- Monitoring will occur in 5th year following construction (2017)
- 7 benthic macroinvertebrate and fish monitoring sites



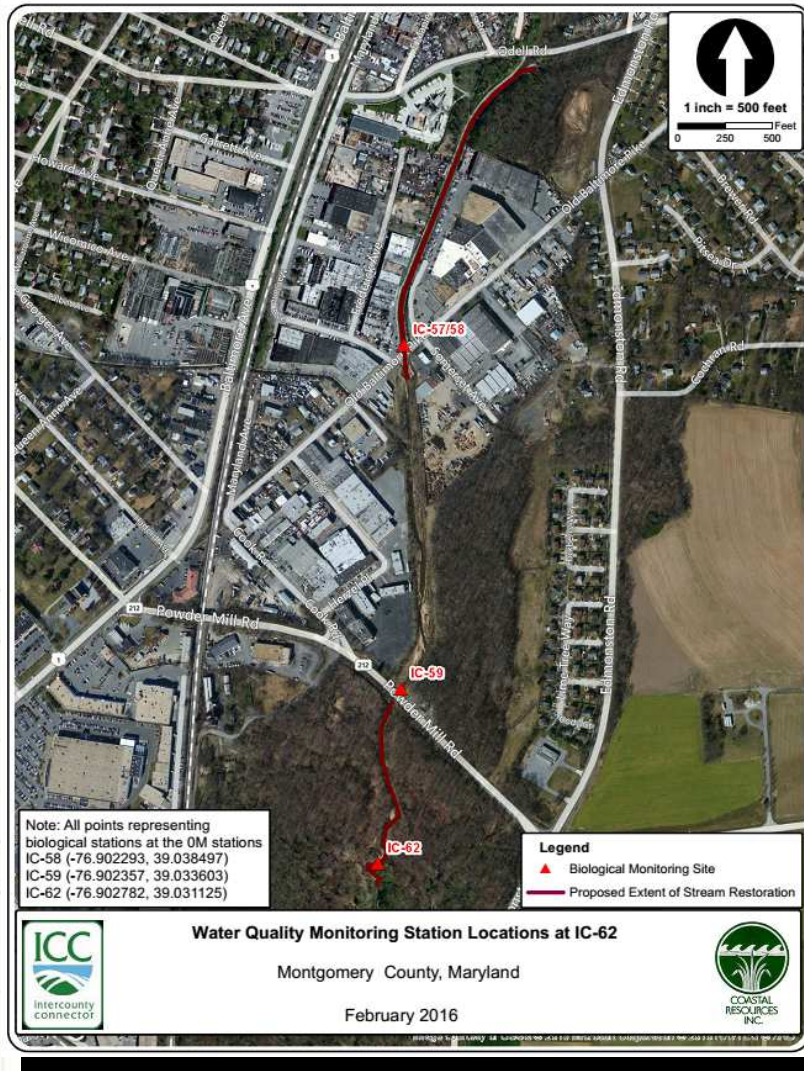
PB-85 Wetland/Stream Restoration



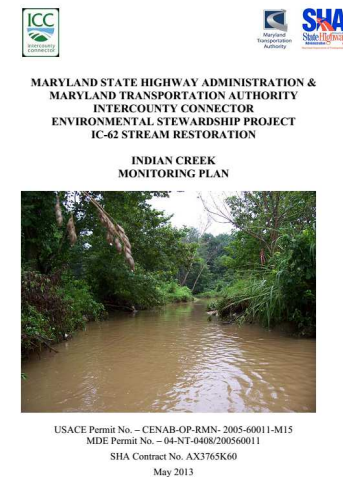
- Paint Branch and Little Paint Branch
- Monitoring 3rd year following construction
- 3 benthic macroinvertebrate and fish monitoring sites



IC-62 Floodplain Creation/Fish Passage /Stream Restoration



- Indian Creek
- Monitoring 3rd year following construction
- 3 benthic macroinvertebrate and fish monitoring sites

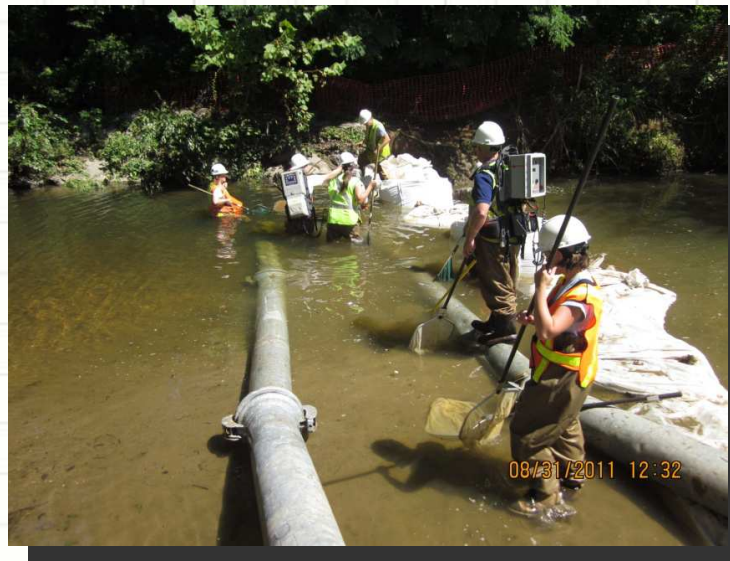


IC-62 Floodplain Creation/Fish Passage /Stream Restoration



ICC Fish Relocation Sites

- Three stream restoration projects in Montgomery County
- NW-160/170 (repairs), NW-4, PB-12
- Backpack electrofish pools in dewatered stream channel during construction
- Relocate fish downstream of work area
- Relocate RTE fish to approved location and collect species data



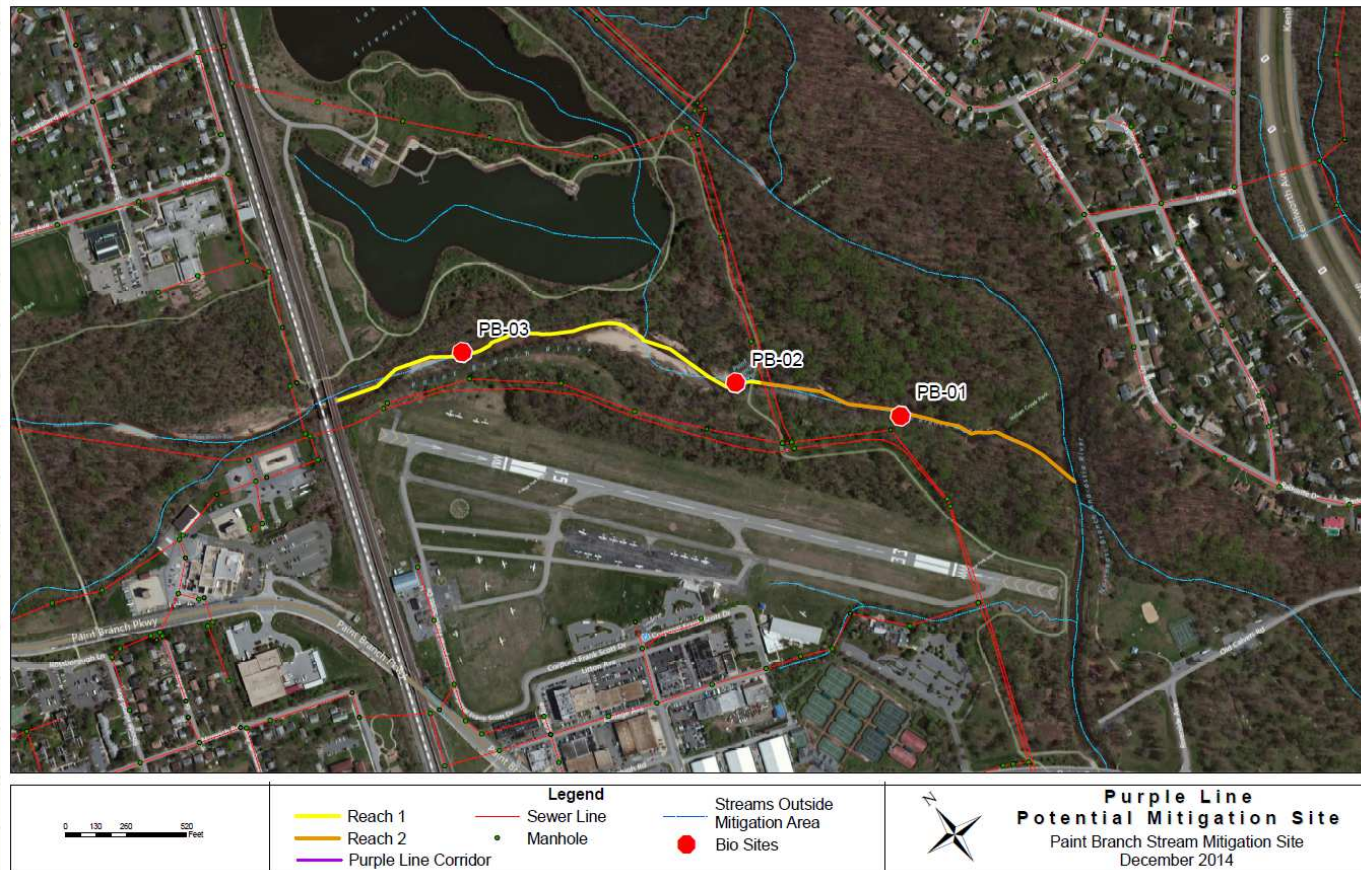


Purple Line Project

- Monitoring two proposed mitigation projects in Prince George's County for MTA
- Paint Branch and Cattail Branch
- Collecting water quality/stream condition data using modified MBSS protocols for spring and summer sampling

Paint Branch Stream Restoration

- Paint Branch Mainstem
- Monitoring baseline conditions in 2016
- 3 benthic macroinvertebrate and fish monitoring sites



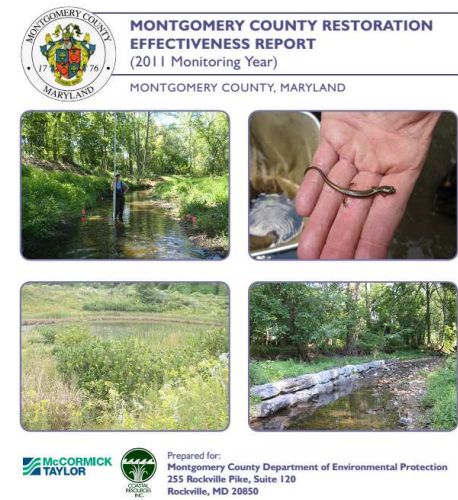
Cattail Branch Stream Restoration

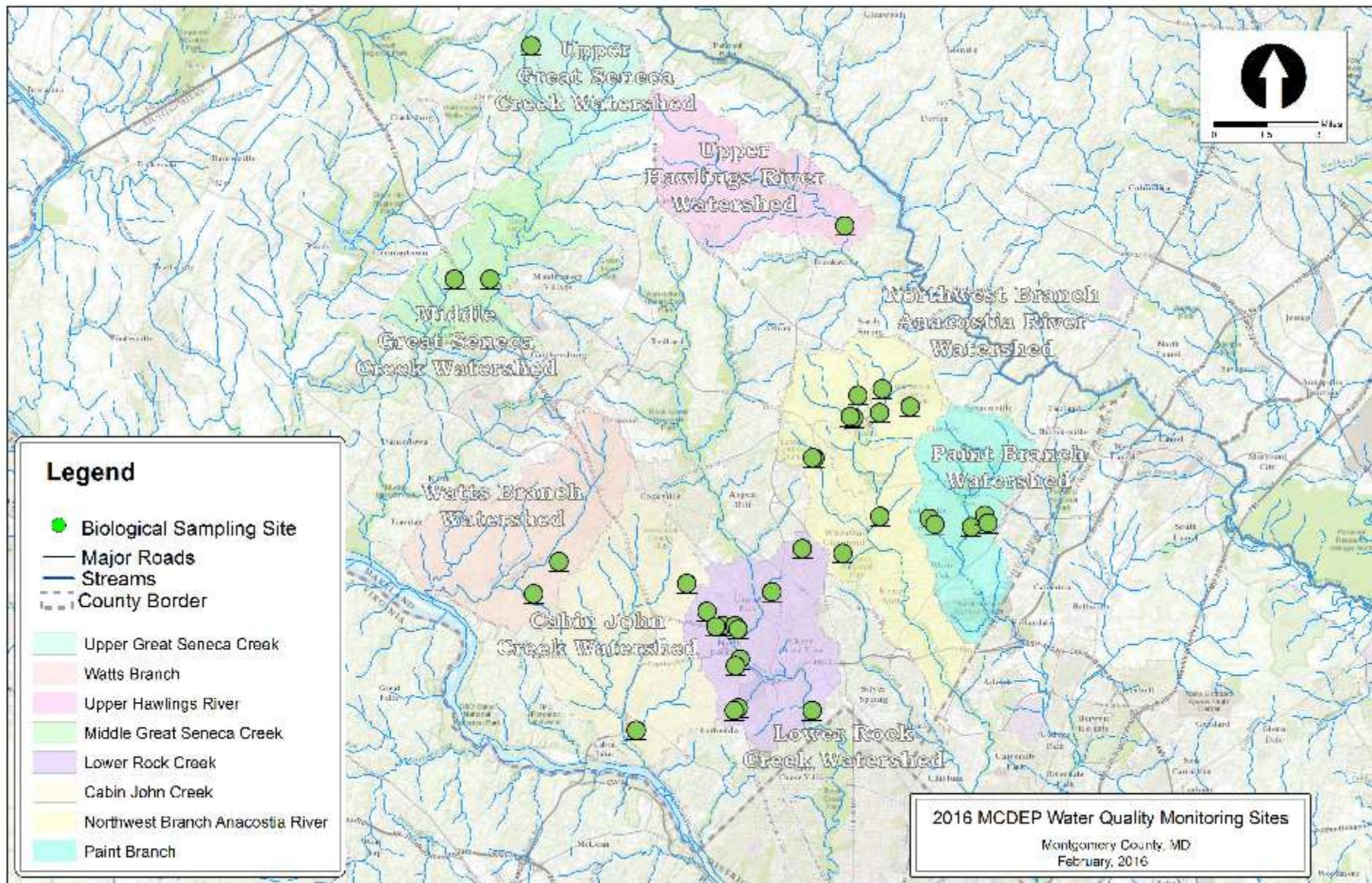
- Cattail Branch and unnamed tributary
- Monitoring baseline conditions in 2016
- 4 benthic macroinvertebrate and fish monitoring sites
- Monitored in 2014-2015



Montgomery County DEP

- Monitoring proposed and existing stream restoration projects for MCDEP
- Working with McCormick Taylor
- Using DEP protocols
- 5 temperature monitoring sites
- 28 fish sampling sites
- 33 benthic sampling sites
- 19 stream salamander sites
- 3 vernal pool sites







Kelly Branch Stream Restoration Project

- Monitoring restoration project in Baltimore County for EPS
- Kelly Branch – tributary to Lock Raven Reservoir
- Collecting water quality/stream condition data
- Assess fish passage

Kelly Branch Stream Restoration



- Kelly Branch
- Monitoring 1st year following construction
- 4 benthic macroinvertebrate and fish monitoring sites
- 3 temperature monitoring sites

